

0 MIN. TO

CAMBER TRUSS

0.004 FT/FT FOR

SINGLE CANTILEVER

1' - 6" MAX.

VERTICAL STRUTS

TRUSS & SIGN & 2

<u>.</u>

CHORD SELECTION

CHORD SIZE

WALL

0.154"

0.218"

0.203"

0.216"

NOM.

DIAM.

2"

3"

SIGN AREA

(X TIMES Y)

 (FT^2)

50 OR LESS

50+ TO 100

100+ TO 150

150+ TO 200

AT SPAN END ONLY

2' - 9" (TYP.) STRUTS AND INTERIOR DIAGONALS INTERIOR DIAGONAL AT SPAN END ONLY

1 SUM OF SIGN FOR DOUBLE CANTILEVER

END

ALL TRUSS DIAGONALS AND STRUTS SHALL BE 1 1/2" (IN) PIPE (0.145" (IN) WALL)

MATERIAL SPECIFICATIONS		
PIPE (CHORDS, DIAGONALS, STRUTS AND POSTS)	ASTM A 36 OR ASTM A 53 GRADE B, TYPE E OR S, OR A 500 GRADE B	
PLATES	ASTM A 36	
SHAPES	ASTM A 36 ASTM A 992	
BOLTS, NUTS, & WASHERS	STD. SPEC. SECT. 9-06.5(3)	
PIPE, PLATE & SHAPE GALVANIZING	AASHTO M 111	
FASTENER GALVANIZING	ASTM F2329	

MATERIAL S	SPECIFICATIONS	CLEARAN HEST POII NDER ASK NDER ASK	SCREEN ~ SEE
PIPE (CHORDS, DIAGONALS, STRUTS AND POSTS)	ASTM A 36 OR ASTM A 53 GRADE B, TYPE E OR S, OR A 500 GRADE B	FROM HIGH	DETAIL, SHEET 4 BOTTOM OF BASE PLATE
PLATES	ASTM A 36	SIGN CENTERLINE MAY VARY FROM TRUSS CENTERLINE TO PROVIDE MINIMUM VERTICAL CLEARANCE.	BASE ELEVATION
SHAPES	ASTM A 36	ELEVATION	

X/2

SINGLE CANTILEVER SIGN STRUCTURE

CONSTANT THROUGHOUT SPAN

€ POST

VERTICAL

1" MAX. AT TOP OF POST

€ CHORD

1 1/4" (IN) CAPPED NIPPLE ~

ON SIDE OPPOSITE

HAND HOLE ON SIDE

APPROACHING TRAFFIC

VERTICAL "FAR"

VERTICAL "NEAR"

BOTTOM OF LUMINAIRE BRACKET ~ WHEN SIGN

LIGHTING IS SHOWN IN THE CONTRACT

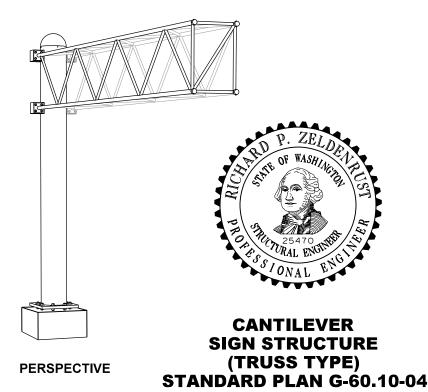
L = 21' - 0" MAX.

TRUSS DIAGONAL (TYP.)

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NOTES

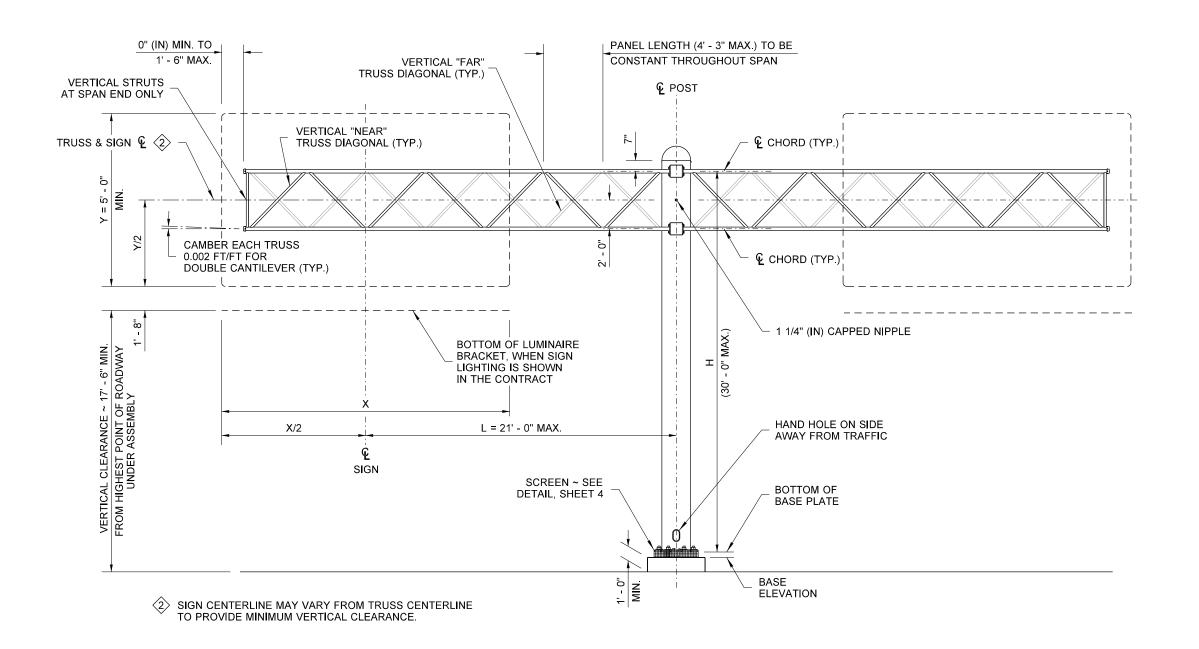
- 1. Vertical and horizontal clearance requirements shall be as shown on the Contract Plans.
- 2. No post splices permitted in lower third of height, nor closer than 3' - 0" to bottom chord, except as otherwise noted. No chord shop splices permitted in first two-thirds of the span, except as otherwise noted. A maximum of two splices are permitted in the post. For post or chord shop splice details, see Standard Plan G-70.10.
- 3. The back-up plates or rings for all full penetration welds shall be welded continuously to the joined pieces. This can be done by either a continuous fillet weld on the back side of the piece, or by a continuous weld in the root of the full penetration weld.
- 4. All bolt holes shall be drilled, and the diameter shall be 1/16" (in) larger than the nominal bolt diameter, except as noted.
- 5. The design and analysis of the structures has been done in accordance with AASHTO Standard Specification for Structural Supports for Highway Signs, Luminaires and Traffic Signals Dated 2001, using 90 MPH wind velocity and fatigue category - I.
- 6. Adjust post alignment in plane normal to roadway centerline by means of leveling nuts located below base plate to maintain upward slope in cantilever arm(s). Tighten anchor nuts above base plate in accordance with Standard Specification Section 6-03.3(33).
- 7. Variable Message Signs (VMS) exceeding 700 lbs. and/or 200 sq. ft. shall not be installed on cantilever structure.
- 8. For electrical requirements, see Standard Plan J-75.45.



SHEET 1 OF 4 SHEETS

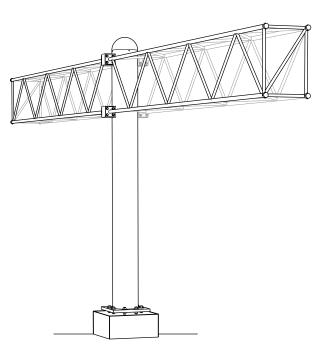
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ELEVATION

DOUBLE CANTILEVER SIGN STRUCTURE



PERSPECTIVE



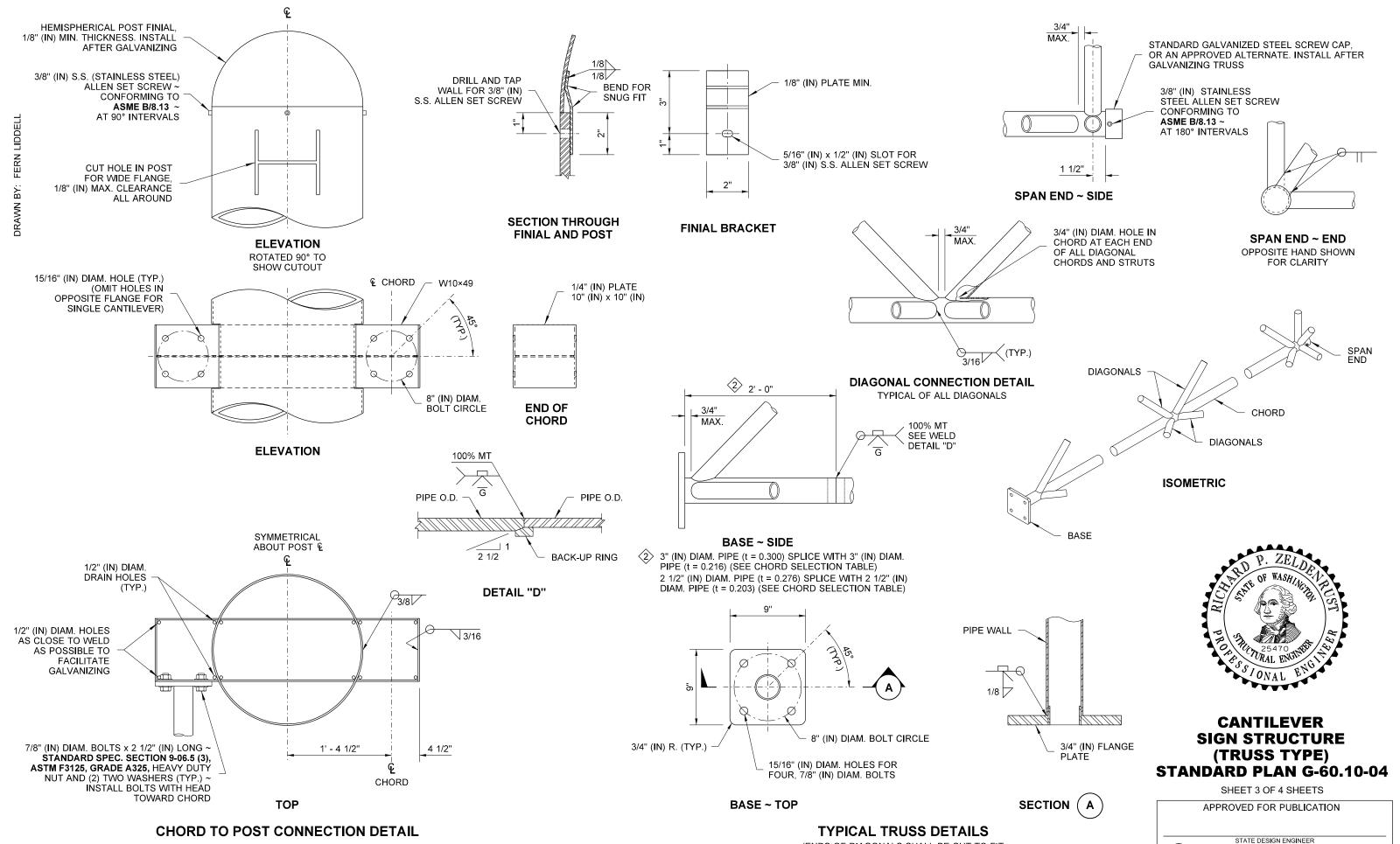
CANTILEVER SIGN STRUCTURE (TRUSS TYPE) STANDARD PLAN G-60.10-04

SHEET 2 OF 4 SHEETS

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER





(ENDS OF DIAGONALS SHALL BE CUT TO FIT **NEATLY AGAINST CHORDS)**

